

United States Environmental Protection Agency Region 4





35TH AVENUE REMOVAL INVESTIGATION BIRMINGHAM, ALABAMA JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book _ _ _ of _ _ _ _ _ _

Inclusive Dates: August Z5TH 2014 (10AY ONLY)

List of Sa	mpling Team	in logbook:
Name	Initials	Organization/Duties
Z. HENDERSON		Team Leader
E. Monnis		OTIE- SANDLER
G. Kowalski	SIC	OTIE- SAMPLOR

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Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (≤) 5,000 square feet the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than (>) 5,000 square feet and ≤ ¼-acre the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over ¼-acre in parcel lot size will be divided into ¼-acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, **Tampa**, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, **PCB**, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and **uns**ieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning **System** (SESDPROC-110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The station ID for each location will consist of seven characters, beginning with the six digit Property ID **designation** for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The sample ID for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

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FROM SIDE		
Collection: Composite or Grab	MS/MSD? Y or 🖎	
Field Duplicate or Split: Yes or O If yes, indicate	Duplicate/split sample station ID:	
GPS Coordinates: Trimble [] Instrument #:	Logged? Y or N	
Aliquot #1: Latitude: 33.55782379300	N Longitude 86.80314680360	_W
Media description: DARK BROWN	SANDY SILT (DRY) W/ GOAL FRAG.	5
Aliquot #2 Latitude: 33.55786230120	N Longitude 86.80314524880	_w
Media description:		
Aliquot #3: Latitude: 33.55790303770	N Longitude - 86.80317276830	_w
Media description:		
Aliquot #4: Latitude: 33.5578976535	N Longitude - 86.80321738420	W
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Aliquot #1: Latitude: 33.55636395780	N Longitude <u>-86.80777775360</u> W
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Aliquot #2 Latitude: 33.55641717540	N Longitude _86.801763 3370 W
Media description:	
Aliquot #3: Latitude: 33.55638974-160	N Longitude- <u>\$6.80771930330</u> W
Media description:	
Aliquot #4: Latitude:33.55639904300	N Longitude <u>-86.80764523630</u> W
Media description:	
Aliquot #5: Latitude:33.55637331290	N Longitude <u>-86.80763016760</u> W
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Collection: Composite or Grab	MS/MSD? Y or N
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Aliquot #1: Latitude: 33.55034 105960	N Longitude <u>- 86.80144033380</u> W
Media description: D74 B20WN	SANDY SILT
Aliquot #2 Latitude: 33, 55034 43090	N Longitude 86.80150707 60 W
Media description:	
Aliquot #3: Latitude: 33.550343 17730	N Longitude-86.80152717590 W
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Other pertinent information (weather	r conditions, etc.):	
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Media description: DPY BR	ON SABY SILT W/ DEBRIS	_
Aliquot #2 Latitude: 33,55238231	550 N Longitude 86.79868899360	W
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Aliquot #4: Latitude: 33,552311075	N Longitude 86.79873985220	W
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	side yard; vegetable garden; play set; ditch, etc):	
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Aliquot #2 Latitude:	N Longitude	W
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DATE: 8/15/14	ARRIVAL TIME: 1907
Other pertinent information (weather	conditions, etc.):
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STATION ID: HP0098B	SAMPLE ID: HPOOGSB-CS	φ-
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1001.	AL TIME: 1636
Other pertinent information (weather conditions, etc.):	
PROPERTY COMMENTS:	
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STATION ID: HP Ø237A	SAMPLE ID: HP0237A-CS
SAMPLE COLLECTION TIME: 164¢	
Description of sample location (from, back, side y	ard; vegetable garden: piay set; ditch, etc):
FROM YARD	
Collection: Composite or Grab	MS/MSD? Y or N
Field Duplicate or Split: Yes or See If yes, indicate	Duplicate/split sample station ID:
GPS Coordinates: Trimble [] Instrument #:	Logged? Y or N
Aliquot #1: Latitude: 33.56676019110	N Longitude <u>86.79186187430</u>
Media description: PAU BROWN	SAODY SILT
Aliquot #2 Latitude: 33.56672912830	N Longitude - 86,7918 6227300
Media description: 255 BROVA	
Aliquot #3: Latitude: 33.56673970490	N Longitude 86.79181375910
Media description: DAZK BROY	SAJDY SILT Y SLAG
Aliquot #4: Latitude: 33.56675581370	N Longitude 86.79176418860
Media description:	
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STATION ID:SAMPLE COLLECTION TIME:	-
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front. back, side year) Collection: Composite or Grab	ard; vegetable garden; play set; ditch, etc): MS/MSD? Y or N
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front, back, side y: Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate	ard; vegetable garden; play set; ditch, etc); MS/MSD? Y or N Duplicate/split sample station ID:
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front, back, side y: Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #:	ard; vegetable garden; play set; ditch, etc): MS/MSD? Y or N Duplicate/split sample station ID: Logged? Y or N
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SAMPLE COLLECTION TIME: Description of sample location (front. back, side y: Collection: Composite or Grab Sield Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Media description:	ms/msd? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front, back, side y: Collection: Composite or Grab Sield Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Media description: Miquot #2 Latitude:	ms/msd? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude N Longitude N Longitude
SAMPLE COLLECTION TIME: Description of sample location (front. back, side year) Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Media description: Media description: Media description:	MS/MSD? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude N Longitude N Longitude
SAMPLE COLLECTION TIME: Description of sample location (front. back, side y: Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Miquot #1: Latitude: Media description: Miquot #2 Latitude: Media description: Miquot #3: Latitude:	MS/MSD? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude N Longitude N Longitude N Longitude N Longitude
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front. back, side y: Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Aliquot #1: Latitude: Media description: Aliquot #2 Latitude: Media description: Aliquot #3: Latitude: Media description:	MS/MSD? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude
STATION ID: SAMPLE COLLECTION TIME: Description of sample location (front. back, side year) Collection: Composite or Grab Field Duplicate or Split: Yes or No If yes, indicate GPS Coordinates: Trimble [] Instrument #: Aliquot #1: Latitude: Media description: Aliquot #2 Latitude: Media description: Aliquot #3: Latitude: Media description: Aliquot #4: Latitude:	MS/MSD? Y or N Duplicate/split sample station ID: Logged? Y or N N Longitude N Longitude
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ADDRESS: 3221			PROPI	ERTY ID: _	CV-04	5 <i>1</i> 5
DATE: <u>6/25/14</u>	A	ARRIVAL T	IME: <u>/</u>	.SØ	***************************************	
Other pertinent information (weather conditions, etc.):						
PROPERTY COMMENTS:				-		
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Grid for property sketch			* . * *	· • •		
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STATION ID: CV\$815A-	SAMPLE ID: CVOSISA-CSQ-
SAMPLE COLLECTION TIME: 1700	
Description of sample location (front, back, side yard; veg	getable garden: play set; ditch, etc):
FROM WALL	
Collection: Composite or Grab	MS/MSD? Y or
Field Duplicate or Split: Yes or O If yes, indicate Duplica	ate/split sample station ID:
GPS Coordinates: Trimble [] Instrument #:	Logged? Y or N
Aliquot #1: Latitude: 33.55419495840	N Longitude <u>86. 70119758940</u> W
Media description:	
Aliquot #2 Latitude: 33.55414263460	N Longitude <u>-810.80108728790</u> W
Media description:	
Aliquot #3: Latitude: 33.55423415430	N Longitude _ 86.018 W
Media description:	
Aliquot #4: Latitude: 33.55432905530	N Longitude - & 6.80119 64 6640 W
Media description:	
Aliquot #5: Latitude: 33.5543 2549190	N Longitude <u>- 86,801,09739130</u> W
Media description:	
STATION ID: CV Ø8/5 B	SAMPLE ID: CVØ815 13-CS Ø-
SAMPLE COLLECTION TIME: 17/5	
Description of sample location (front, back, side yard; veg	etable garden; play set; ditch. etc):
BACK YARD	
Collection: Composite or Grab	MS/MSD? Y or S
Field Duplicate or Split: Yes or Go If yes, indicate Duplicate	te/split sample station ID:
GPS Coordinates: Trimble [] Instrument #:	Logged? Y or N
Aliquot #1: Latitude: 33.55434992970	
Media description:	
Aliquot #2 Latitude: 33.55434 231470 1	N Longitude - 86.201105191640 W
Media description:	
Aliquot #3: Latitude: 33.5543727180	N Longitude - 810,80115240490 W
Media description:	
The state of the s	
	N Longitude - 86 80122397910 W
	N Longitude _86.80122397910 W
Media description: Aliquot #5: Latitude: 33.55440322901	

ADDRESS:	PROPERTY ID:	ROPERTY ID:	
DATE:	ARRIVAL TIME:		
Other pertinent information (weather conditions,	etc.):	*	
PROPERTY COMMENTS:			

Grid for property sketch

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